

Engineering and reliance

# RYODEN DUMBWAITER

NEW MODEL SERIES-F TYPE-RTM & RLM



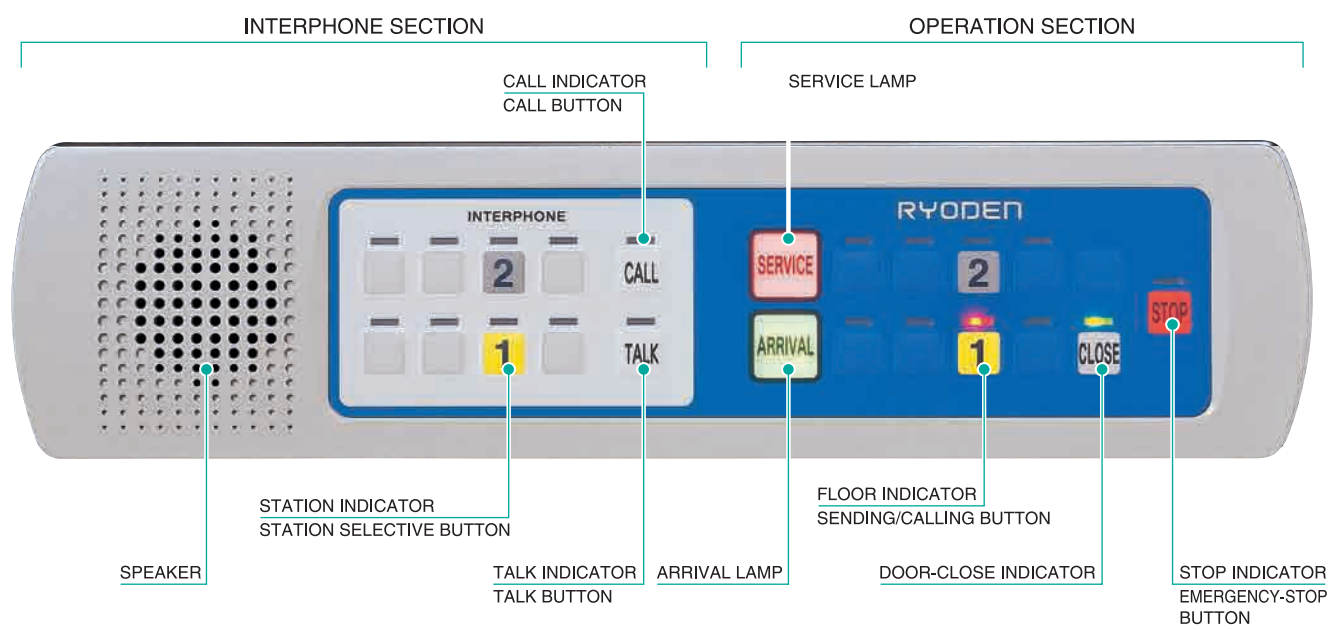
SERIES **F**  
*Full Model Change*



# The Innovation in Convenience by RYODEN Series F.

The Ryoden Series F Dumbwaiter offers convenience in vertical transportation of light loads by it's high-performance in the operation speeds, reliability, energy and space saving features and others.

## OPERATING PANEL



The operating panel shown above is for the floor-type dumbwaiter. The table-type dumbwaiter features a vertically oriented operating panel. Both panels offer identical functions. The operation status of the dumbwaiter can be easily understood by the large SERVICE or ARRIVAL lamp.

# Two Types of Opening for The Purposes.

## TABLE TYPE

Since the opening is mounted in the height of human waist, this type is suitable to the spreading of the table for dinner and the transportation of baggage such as books



RTM-100

## FLOOR TYPE

Since the opening is provided on the same level as the building floor, this type dumbwaiter is suitable to transport the spreading-car for the table of dinner and the hand cart.



RLM-300

# The Optimal Functionality

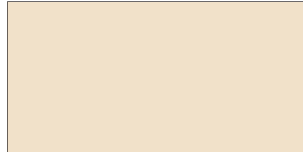
- 1 All types are provided with VVVF inverter-controls for high speed up to 45mpm.**
  - (1)Operation speed as high as 45mpm improves the transportation efficiency.  
[NOTE]The speed of type RLM with capacity of 500kG is 23mpm.
  - (2)The accuracy of its automatic landing feature is extremely high, ensuring the landing of the cage within ±5mm from the building floor. This eliminates the need for tedious re-leveling by an inching switch.
  - (3)Energy saving efficiency is 20% better than that of conventional dumbwaiters.
  - (4)Space saving efficiency in the hoistway dimensions and the machine room height is better than that of conventional dumbwaiters.
- 2 All types are equipped with the cage door as the standard specification.**
  - (1)The cage door minimizes sudden stops of dumbwaiter that may occur when goods have fallen off the cage.
- 3 Operating panel with water-resistant sheet switch.**
  - (1)The water-resistant sheet switch protects short circuit by water.

## STANDARD SPECIFICATION

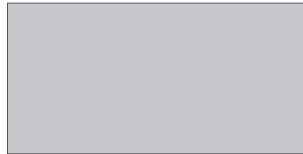
TABLE TYPE RTM			STANDARD SPECIFICATION
	ENTRANCE	JAMB, DOOR	PAINTED STEEL SHEET
		TABLE	STAINLESS STEEL HAIR-LINE FINISHED
	CAGE	CEILING, WALL	PAINTED STEEL SHEET
		FLOOR	STAINLESS STEEL HAIR-LINE FINISHED
		DOOR	PAINTED STEEL SHEET
		SHELF BOARD	STAINLESS STEEL HAIR-LINE FINISHED

FLOOR TYPE RLM			STANDARD SPECIFICATION
	ENTRANCE	JAMB, DOOR	PAINTED STEEL SHEET
		SILL	PAINTED ANGLED SHEET
	CAGE	CEILING, WALL,	PAINTED STEEL SHEET
		FLOOR	PAINTED CHECKERED STEEL SHEET
		DOOR	PAINTED STEEL SHEET

## STANDARD COLORS



No.601



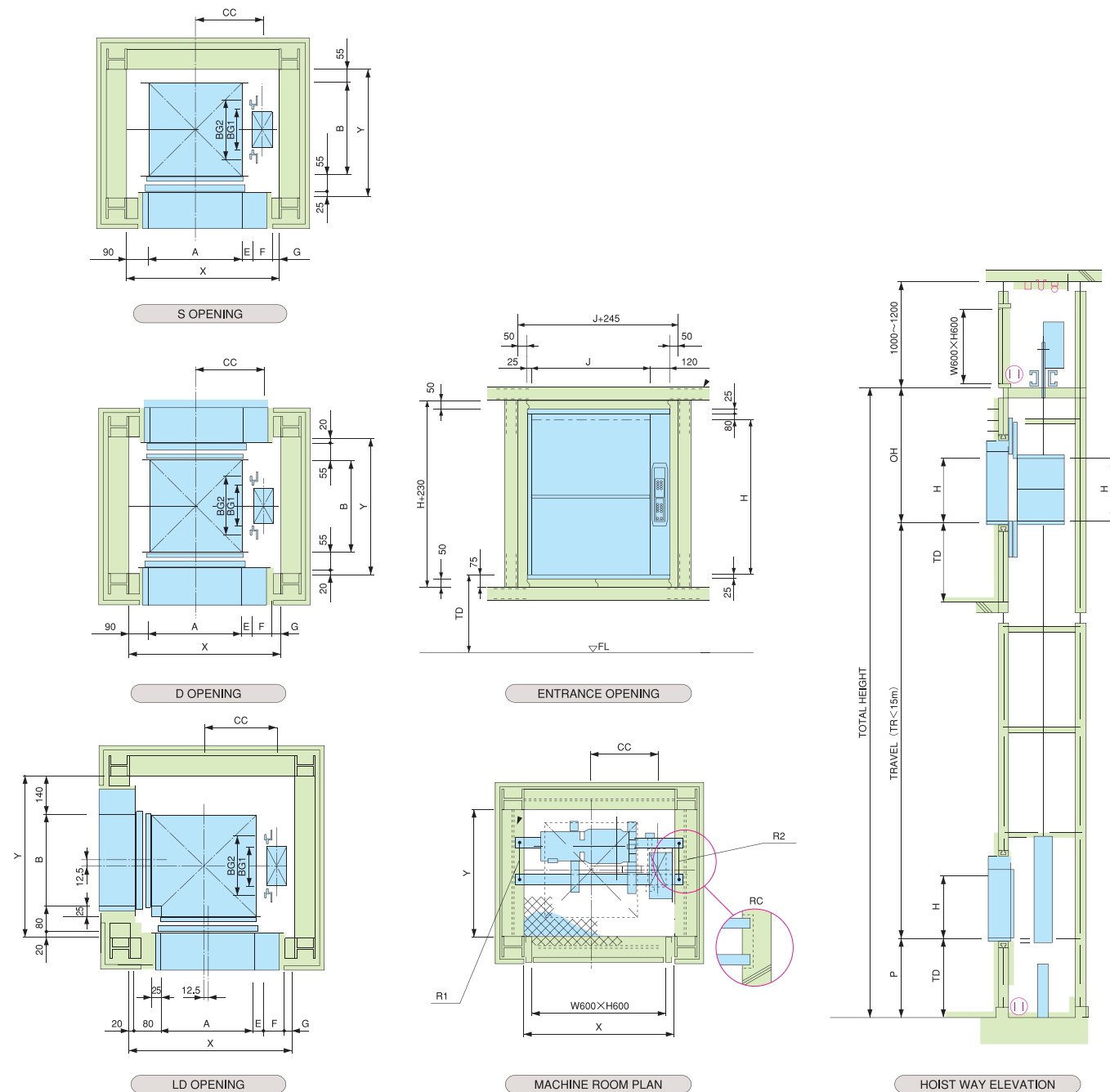
No.602



No.603

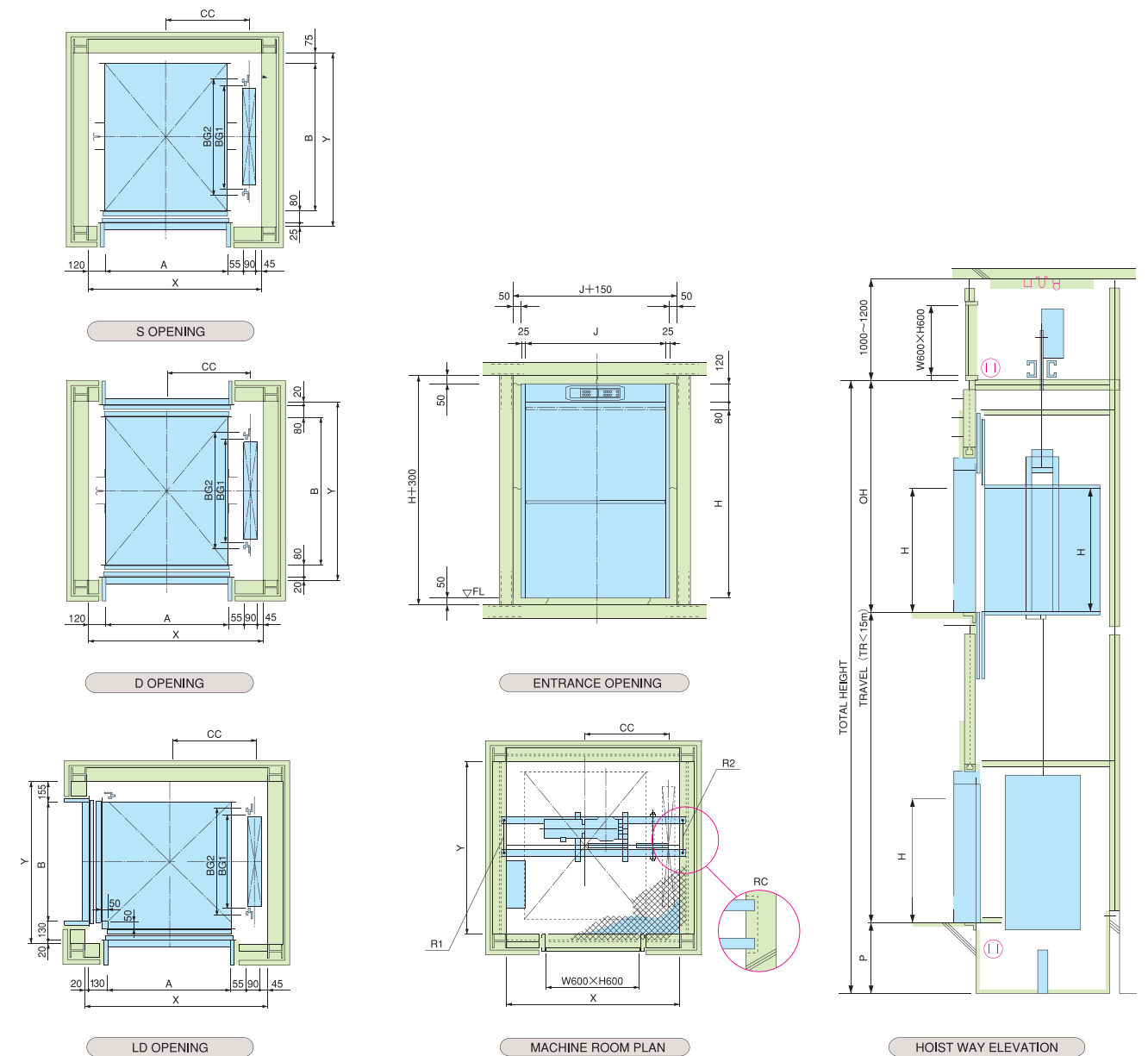
Actual colors may vary due to variations in the printing process.

# TABLE TYPE RTM



[mm]																						
TYPE	ENTRANCE OPENING	CAPACITY (kg)	MOTOR (Kw-P)	SPEED (m/min)	CAGE INTERNAL DIMENSION	HOISTWAY INTERNAL DIMENSION & HOISTWAY DIMENSIONS										ENTRANCE DIMENSIONS		PIT	TABLE HIGHT	MACHINE BEAM REACTION LOAD		SHELF
					A × B × H	X	Y	CC	E	F	G	BG1	BG2	OH	J	H	P			TD	R <sub>1</sub> (kN)	
RTM- 30-S -45	SINGLE OPENING	30	0.4 -4	INVERTER CONTROL 45	500×500×750	745	635	277.5	12	35	108	200	278	1425	500	750	700	700	1.2	2.1	1	
RTM- 30-D -45	FRONT & BACK OPENING					755	650															
RTM- 30-LD-45	FRONT & SIDE OPENING					755	740															
RTM- 50-S -45	SINGLE OPENING	50	0.4 -4	INVERTER CONTROL 45	600×600×750	845	735	327.5	12	35	108	300	378	1425	600	750	700	700	1.7	2.7	1	
RTM- 50-D -45	FRONT & BACK OPENING					855	750															
RTM- 50-LD-45	FRONT & SIDE OPENING					855	840															
RTM-100-S -45	SINGLE OPENING	100	0.75 -4	INVERTER CONTROL 45	750×750×900	995	885	425	12.5	75	67.5	450	528	1650	750	900	650	650	2.6	4.2	2	
RTM-100-D -45	FRONT & BACK OPENING					1005	900															
RTM-100-LD-45	FRONT & SIDE OPENING					1005	990															

# FLOOR TYPE RLM



[mm]																	
TYPE	ENTRANCE OPENING	CAPACITY (kg)	MOTOR (Kw-P)	SPEED (m/min)	CAGE INTERNAL DIMENSION	HOISTWAY INTERNAL DIMENSION & HOISTWAY DIMENSIONS					OVER HEAD	ENTRANCE DIMENSIONS		PIT	MACHINE BEAM REACTION LOAD		ROPING
					A × B × H	X	Y	CC	BG1	BG2	OH	J	H	P	R <sub>1</sub> (kN)	R <sub>2</sub> (kN)	
RLM-200-S -45	SINGLE OPENING	200	1.5 -4	INVERTER CONTROL 45	900×1100×1200	1210	1280	550	750	828	2100	900	1200	700	5.9	7.7	1:1
RLM-200-D -45	FRONT & BACK OPENING				1000×1000×1200	1310	1180	600	750	828		1000			6.0	7.7	
					900×1100×1200	1210	1300	550	750	828		900			6.1	7.9	
					1000×1000×1200	1310	1200	600	750	828		1000			6.2	8.0	
RLM-200-LD-45	FRONT & SIDE OPENING				900× 900×1200	1240	1205	575	700	778		900			6.4	8.6	
RLM-300-S -45	SINGLE OPENING	300	2.2 -4	INVERTER CONTROL 45	900×1100×1200	1210	1280	550	750	828	2100	900	1200	700	7.5	9.8	1:1
RLM-300-D -45	FRONT & BACK OPENING				1000×1000×1200	1310	1180	600	750	828		1000			7.6	9.8	
					900×1100×1200	1210	1300	550	750	828		900			7.6	9.9	
					1000×1000×1200	1310	1200	600	750	828		1000			7.6	9.9	
RLM-300-LD-45	FRONT & SIDE OPENING				900× 900×1200	1240	1205	575	700	778		900			7.6	10.2	
RLM-500-S -23	SINGLE OPENING	500	2.2 -4	INVERTER CONTROL 23	900×1100×1200	1210	1280	550	750	828	2100	900	1200	700	9.4	14.7	2:1
RLM-500-D -23	FRONT & BACK OPENING				1000×1000×1200	1310	1180	600	750	828		1000			9.5	14.8	
					900×1100×1200	1210	1300	550	750	828		900			9.3	14.7	
					1000×1000×1200	1310	1200	600	750	828		1000			9.5	14.8	
RLM-500-LD-23	FRONT & SIDE OPENING				900× 900×1200	1240	1205	575	700	778		900			9.4	14.7	

## OPTIONAL ITEMS (WITH ADDITIONAL PRICE)

ON DETAILS EXCEPT FOR STANDARD SPECIFICATIONS, PLEASE CONSULT TO RYODEN.

### (1)COMMON ITEMS

ITEM	OPTIONS	YES or NO	REMARKS
1	SPECIAL CAR SIZE	YES	RTM TYPE (within below figures) $500 \leq A \leq 750$ , $600 \leq H \leq 900$ RLM TYPE (within below figures) $800 \leq A \leq 1000$ , $1000 \leq B \leq 1150$
2	MOTOR DRIVEN ENTRANCE AND CAGE DOOR WITH REMOTE-CONTROL DEVICE	YES	CAGE CAN BE CALLED BY HANDY REMOTE-CONTROL DEVICE. DOORS OPEN ON ARRIVAL.
3	CAR AND CWT. SAFETY	YES	SINGLE AND FRONT & BACK OPENING ONLY

REMARKS;ITEMS ABOVE REQUIRE CHANGES IN THE HOISTWAY DIMENSIONS.

### (2)FOR TABLE TYPE

ITEM	OPTIONS	YES or NO	REMARKS
1	STAINLESS STEEL HAIR-LINE FINISHED JAMB	YES	PAINTED STEEL SHEET IS STANDARD.
2	STAINLESS STEEL HAIR-LINE FINISHED ENTRANCE DOOR	YES	PAINTED STEEL SHEET IS STANDARD.
3	STAINLESS STEEL HAIR-LINE FINISHED CAGE (CEILING, WALL, DOOR)	YES	PAINTED STEEL SHEET IS STANDARD.

### (3)FOR FLOOR TYPE

ITEM	OPTIONS	YES or NO	REMARKS
1	STAINLESS STEEL HAIR-LINE FINISHED JAMB	YES	PAINTED STEEL SHEET IS STANDARD.
2	STAINLESS STEEL HAIR-LINE FINISHED ENTRANCE DOOR	YES	PAINTED STEEL SHEET IS STANDARD.
3	STAINLESS STEEL SILL	YES	PAINTED ANGLED STEEL IS STANDARD.
4	CHECKERED STEEL PLATE SILL (PAINTED BLACK ENAMEL)	YES	PAINTED ANGLED STEEL IS STANDARD.
5	STAINLESS STEEL HAIR-LINE FINISHED CAGE (CEILING, WALL, DOOR, FLOOR)	YES	PAINTED STEEL SHEET IS STANDARD.

## WORKS NOT INCLUDED IN INSTALLATION CONTRACT

1. THE CONSTRUCTION WORKS OF HOISTWAY AND MACHINE ROOM.
2. HOLES OF MACHINE ROOM FLOOR AND OPENINGS OF EACH FLOOR.
3. MACHINE ROOM ENTRANCE.
4. OPENING FOR CARRYING CONTROL PANEL AND MACHINE, AND THEIR POURING.
5. PIT WATERPROOF WORKS
6. WIRINGS FOR POWER SUPPLY INCLUDING EARTHING TO POWER RECEIVING BOX IN MACHINE ROOM.
7. WIRING FOR SIGNAL POWER SUPPLY TO POWER RECEIVING BOX IN MACHINE ROOM.
8. ILLUMINATION EQUIPMENT WORKS IN MACHINE ROOM AND ELECTRIC OUTLET FOR INSPECTION.
9. IF A GROUND FAULT INTERRUPTER IS USED AS THE CIRCUIT BREAKER, SET THE CURRENT SENSITIVITY TO 100 mA OR GREATER.

## NOTES

1. VOLTAGE FLUCTUATION SHALL BE WITHIN +5%~-10%
2. THE FOLLOWING CONDITIONS ARE REQUIRED FOR MAINTAINING THE PREDETERMINED PERFORMANCE.
  - (1) TEMPERATURE OF MACHINE ROOM SHALL BE BELOW 40°C.
  - (2) MOISTURE SHOULD BE BELOW 90% ON A MONTHLY AVERAGE AND BELOW 95% ON A DAILY AVERAGE.
  - (3) MACHINE ROOM AND THE HOISTWAY SHOULD BE FREE OF DUST OR HARMFUL GAS.
3. THE TUBE APPARATUSES FOR ELECTRICITY OR WATER SUPPLY SHALL NOT BE BURIED INTO HOISTWAY WALL.



**RYODEN ELEVATOR CONSTRUCTION LTD**

HEAD OFFICE : KS BLDG., 2-4 ICHIGAYA SADOHARACHO.  
 SHINJUKU-KU. TOKYO 162-8422 JAPAN  
 TEL.: 03-3235-9242



# RYODEN DUMBWAITER

The Ryoden Dumbwaiter is a special freight-only elevator that links upper and lower floors in many business locations: not just in restaurants, but also in hospitals, schools, facilities for the aged or the disabled, offices, homes, and factories.

Models include the “table type” installed waist-high, and the “floor type” which is level with the floor to permit loads on wheels. The model lineup is pictured below.



**Standard model**  
(floor type shown)



**Remote model**  
(table type shown)



**Clean dumbwaiter**  
(conveyor belt optional)

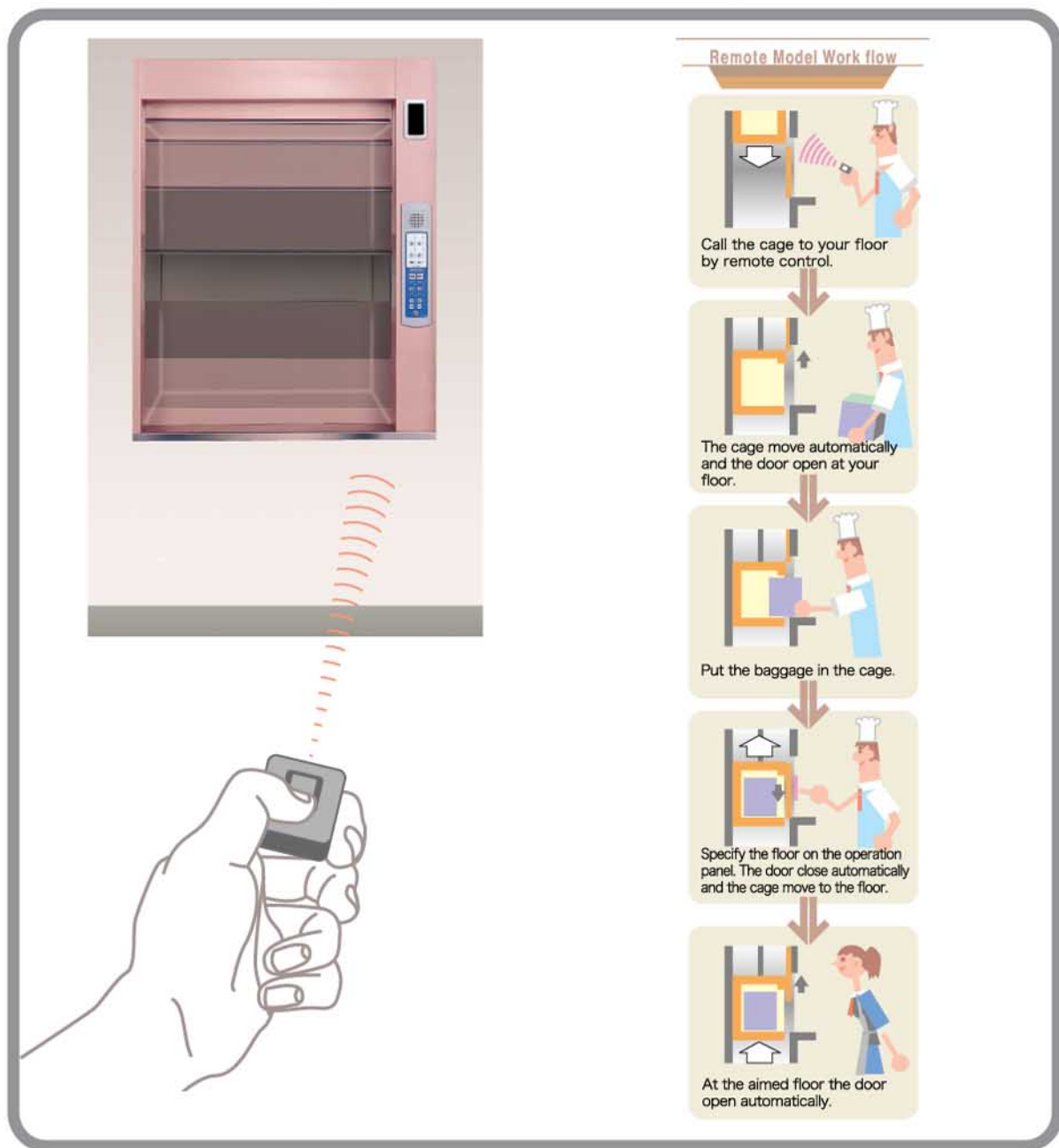
The standard model offers basic features but superior performance in the vertical transportation of small freight.

The remote model adds a remote control function to the standard model. The remote can be used to call the dumbwaiter and open the doors automatically.

The clean dumbwaiter is available for installation in a clean room. It features options such as the conveyor belt for automatic loading.

# RYODEN DUMBWAITER

## REMOTE MODEL SERIES-F



Attention

1

### From remote location

#### Useful remote control

- ◆ You can call the cage anytime and from anywhere by remote control.
- ◆ First adoption of remote control system in the same products. You can profit efficiency of work.



Attention

2

### By one-pushing of button

#### The door open automatically.

- ◆ By onetime pushing the button of remote control equipment, the cage come and the door open automatically.
- ◆ After check of the cage inside, you can transport the baggage. You can decrease loss-time.



Attention

3

### For the first time

#### More clean and more sanitary.

- ◆ By remote control the electric door automatically open and close. It is clean and sanitary operation of dish because of, not same as the past, no use of hand at operation the door open and close.

